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CHAPTER IV

PRESENTATION OF DATA ANALYSIS

Description of the Data

The data of this research were gotten from the students' score through pre-test and post-test. The purposes of this research were to find out students' speaking skill taught by using media animation film is better than taught without media using animation film, and to find out whether there is significant effect between using or without using media animation film on students' speaking skill in SMK Darel Hikmah Pekanbaru. Before giving post-test, the researcher gave the pre-test to all of the samples. The speaking result was evaluated by concerning five components: pronunciation, grammar, vocabulary, fluency and comprehension. Each component had its score.

The Data Presentation

The data of this research was gotten by the researcher from pre-test and post-test. The data were collected through the following procedure:

- a. The students got pre-test, the researcher asked them to do oral presentation,
- b. After that, the researcher gave treatment to the students by using animation film,
- c. The students got post test to do oral presentation of narative story,

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- d. The speaking was recorded by the researcher and it was backed up into CD/flashdisk
- e. The data were rated by two raters.

The following table is the description of students' speaking skills obtained from raters.

Table IV.1
Data of Students' Speaking Skill

No	Students	Experiment					
		Rater 1	Rater 2	Pre-test	Rater 1	Rater 2	Post-test
1	Student 1	52	60	56	68	68	68
2	Student 2	40	56	48	64	64	64
3	Student 3	64	52	58	80	68	74
4	Student 4	44	52	48	64	76	70
5	Student 5	44	52	48	68	72	70
6	Student 6	64	52	58	80	68	74
7	Student 7	44	60	52	64	64	64
8	Student 8	40	64	52	64	60	62
9	Student 9	48	48	48	64	72	68
10	Student 10	44	60	52	64	68	66
11	Student 11	56	60	58	76	68	72
12	Student 12	60	60	60	76	76	76
13	Student 13	64	56	60	80	72	76
14	Student 14	64	72	68	76	60	68
15	Student 15	48	68	58	72	60	66
16	Student 16	62	52	52	76	72	74
17	Student 17	58	60	54	68	72	70
18	Student 18	48	68	58	72	60	66
19	Student 19	64	60	62	80	60	70
20	Student 20	48	60	54	60	72	66
TOTAL				1104			1384
MEAN				55.2			69.2

There is 20 students in experimental group. The total score of pre-test is 1104 and the total score of post-test is 1384. The mean of pre-test is 55.2 and the mean of post-test is 69.2. The highest score of pre-test is 68 and the lowest score of pre-test is 48. While, the highest score of post-test is 76 and the lowest score of post-test is 62.

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Table IV.2
Classification of Pre-test Scores

No	Categories	Score	Frequency	Percentage
1	Very Good	80-100	0	0%
2	Good	66-79	1	5%
3	Enough	56-65	9	45%
4	Less	40-55	10	50%
5	Fail	30-39	0	0%
TOTAL			20	100%

The table IV.2 shows that the category of number 1 got the frequency 0 (0%), the category number 2 got 1 (5%), the category of number got 9 (45%), the category number got 10 (50%), and the category number 5 got 0 (0%). Then, the highest percentage was 10 (50%).

Table IV.3
Classification of Post-test Scores

No	Categories	Score	Frequency	Percentage
1	Very Good	80-100	0	0%
2	Good	66-79	17	85%
3	Enough	56-65	3	15%
4	Less	40-55	0	0%
5	Fail	30-39	0	0%
Total			20	100%

The table IV. 3 shows that the category of number 1 got the frequency 0 (0%), the category number 2 got 17 (85%), the category of number 3 got 3 (15%), the category number 4 got 0 (0%), and the category number 5 got 0 (0%). Then, the highest percentage was 17 (85%).

UIN SUSKA RIAU

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1. The Description of Students' Pre-test Scores

Table IV. 4
The Frequency Distribution of Students' Pre-test Scores

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	48.00	4	20.0	20.0	20.0
	52.00	4	20.0	20.0	40.0
	54.00	2	10.0	10.0	50.0
	56.00	1	5.0	5.0	55.0
	58.00	5	25.0	25.0	80.0
	60.00	2	10.0	10.0	90.0
	62.00	1	5.0	5.0	95.0
	68.00	1	5.0	5.0	100.0
Total		20	100.0	100.0	

Table IV.4 shows that there is 4 students who got score 48 (20%), 4 students who got score 52 (20%), 2 students who got score 54 (10%), a student who got score 56 (5%), 5 students who got score 58 (25%), 2 students who got score 60 (10%), a student who got score 62 (5%), and a student who got score 68 (5%) The highest frequency is at the score of 58 with the total of frequency which is 20.

Table IV.5
Statistical Description of Students' Pre-test Scores

N	Valid	20
	Missing	0
Mean		55.20
Median		55.33
Mode		58.00
Std.Deviation		5.366
Variance		28.800
Range		20.00
Minimum		48
Maximum		68
Sum		1104

From the table above, the researcher found that the mean of the data is 55.20, the median is 55.33, the mode is 55.00, the standard deviation is 5.366, the variance is 28.000, the range is 20, the minimum score is 48, the

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maximum score is 68 and the total score is 1104. From the mean score, the students speaking skill before being taught by using media animation film is categorized into “**Enough**” level.

2. The Description of Students’ Post-Test Scores

Table IV.6
The Frequency Distribution of Students’ Post-Test Scores

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	62.00 1	5.0	5.0	5.0
	64.00 2	10.0	10.0	15.0
	66.00 4	20.0	20.0	35.0
	68.00 3	15.0	15.0	50.0
	70.00 4	20.0	20.0	70.0
	72.00 1	5.0	5.0	75.0
	74.00 3	15.0	15.0	90.0
	76.00 2	10.0	10.0	100.0
Total	20	100.0	100.0	

Table IV.6 shows that 1 student got score 62 (5%), 2 students got score 64 (10%), 4 students got score 66 (20%), 3 students got score 68 (15%), 4 students got score 70 (20%), a student got 75 (5%), 3 students got score 74 (15%), and 2 students got score 76 (10%). The highest frequency is 4 at the score of 66 dan 70, the total frequency is 20.

Table IV.7
Statistical Description of Students’ Post-test Score

N	Valid 20
	Missing 0
Mean	69.20
Median	68.85
Mode	66.00
Std.Deviation	4.124
Variance	17.11
Range	14.00
Minimum	62
Maximum	76
Sum	1384

From the table above, the researcher found that the mean of the data is 69.20, the median is 68.85, the mode is 66.00, the standard

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deviation is 4.124, the variance is 17.001, the range is 14, the minimum score is 62, the maximum score is 76, and the total score is 1384. From the mean score, the students speaking skill before being taught by using media animation film is categorized into “**Good**” level.

3. The Effect of Using Animation Film on Students’ Speaking Skill at SMK Darel Hikmah Pekanbaru

Table IV.8
Students’ Pre-test and Post-test Score

No	Students	Pre-Test	Post-test
1	Student 1	56	68
2	Student 2	48	64
3	Student 3	58	74
4	Student 4	48	70
5	Student 5	48	70
6	Student 6	58	74
7	Student 7	52	64
8	Student 8	52	62
9	Student 9	48	68
10	Student 10	52	66
11	Student 11	58	72
12	Student 12	60	76
13	Student 13	60	76
14	Student 14	68	68
15	Student 15	58	66
16	Student 16	52	74
17	Student 17	54	70
18	Student 18	58	66
19	Student 19	62	70
20	Student 20	54	66
Total		1104	1384
Mean		55.2	69.2

Based on the table above, it can be seen that the total score of post-test is 1384 while the pre-test is 1104. And the mean score of post-test is 69.2 while the pre-test is 55.2.

Normality of the Data

The normality test was used to know whether the distribution of the data is normal or not. In analyzing the data, the researcher used SPSS 22.

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Table IV.9
Test of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	Statistic	df	Sig.	df	Sig.
Pre-test	0.149	20	0.200*	0.932	20	0.171
Post-test	0.131	20	0.200*	0.950	20	0.368

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Based on the data above, it can be seen that both the sig. value of post-test and sig. value of pre-test are 0.200. It can be stated that $0.200 > 0.05$ which means that the data are normally distributed.

B. Data Analysis

a. The Effect of Using Animation Film on Students' Speaking Skill.

Table IV.10
Paired Samples Statistic

Test	Mean	N	Std.Deviation	Std. Error Mean
Pre-test	55.20	20	5.366	1.200
Post-test	69.20	20	4.124	0.922

Based on the table IV.10, it could be seen that the mean score of pre-test is 55.20, the standard deviation is 5.366, the standard error of mean is 1.200, and the mean score of post-test is 69.20, the standard deviation is 4.124, and the standard error of mean is 0.922. it means that there is a significant increase between pre-test and post-test scores of experimental class. The table below determines the result of the paired sample test analysis.

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Table IV.11
Paired Sample Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	Post-Test - Pre-Test	14.000	5.544	1.240	16.595	11.405	11.293	19	0.000

The testing criteria and hypotheses for interpreting the paired samples test are as follows:

If Probabilities > 0.05 , H_0 is accepted

If Probabilities < 0.05 , H_a is accepted

H_0 : There is no statistically difference

H_a : There is statistically difference

From the output above, it also can be seen that the sig. value is 0.000. It can be stated that $0.000 < 0.05$. It means that null hypothesis (H_0) is rejected, while the alternative hypothesis (H_a) is accepted. So it means that there is a difference between students' pre-test and post-test score.

To identify the level of the effect of using media animation film on students' speaking skill at SMK Darel Hikmah Pekanbaru, it was calculated by using eta squared formula:

$$\eta^2 = \frac{t^2}{t^2 + (n_1 - 1)}$$

$$\eta^2 = \frac{11.293^2}{11.293^2 + (20 - 1)}$$

$$\eta^2 = \frac{104.673}{104.673 + 19}$$

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$$\eta^2 = \frac{104.673}{123.673}$$

$$\eta^2 = 0.84$$

Based on the result above, it is clear that the effect size is 0.84 and interpreted as large effect. The guidelines used for interpreting this value are: 0.01 is small effect, 0.06 is moderate effect, and 0.14 is large effect (Cohen, 2010, p. 209).

In conclusion, students' speaking skill taught by using animation film at SMK Darel Hikmah Pekanbaru is better than before. Thus, there is significant effect of using media animation film on students' speaking skill at SMK Darel Pekanbaru.